UNDERGROUND STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS

A. Site Preparation

Areas under the culverts, structural works, and stream diversion shall be cleared, grubbed, and the topsoil stripped to remove all trees, vegetation, roots, or other objectionable material.

B. Specification for Corrugated Steel Pipe

DESCRIPTION:

The Aluminized Type II corrugated steel shall be fabricated in accordance with AASHTO designation M-274 from a base metal manufactured in accordance with ASTM A-525 coated uniformly on both sides with 1.00 oz/sq. ft. of pure aluminum.

MATERIAL:

The	diameter corr	rugated metal pipe	shall be of the corrug	ation design a	nd gage indica	ted.
The steel p	pipe, couplers and f	ittings shall confor	m to the requirements	s of AASHTO	M-36 with the	e pipe
having a _	X	corrugation profil	e and shall be a mini	mum	gage (0	_). The
coupling b	ands shall be the sa	me material as the	pipe and shall be a m	ninimum of 10	-inches wide.	The
corrugated	d metal pipe shall be	e manufactured wit	h continuous locksear	m or butt weld	led helical	
corrugatio	ns and having no le	ess than two annula	r corrugations rerolle	d at both ends	of any length	of pipe.
Coupling 1	bands shall be form	ed with two corrug	ations that are spaced	d to provide se	ating in the sec	cond
	_		nds shall be matched		1 0	
shall be pe	er the approved plan	ns. All Aluminized	surfaces that will be	in contact wit	h concrete sha	ll be
painted wi	ith one coat of zinc	chromate primer.				

C. Installation

The corrugated metal pipe shall be handled in a manner not to damage the pipe or coating. Bedding and backfill material shall be selected, granular material and shall be free of rocks and hard clods larger than 3-inches in size. The bedding and backfill material shall be carefully placed and consolidated evenly on both sides of the pipe in maximum 8-inch loose lifts. The Ph of the surrounding soil shall be less than (9) and greater than (4).

The material must completely fill all spaces under and adjacent to the structure or pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of the structure. Under no circumstances shall the contractor drive equipment over a concrete structure or pipe unless there is a compacted fill of 24-inches or greater over the structure or pipe.

Contractor shall be responsible for providing adequate shoring of trench walls tp prevent failure during construction.

D. Connections

All connections shall be completely water tight. This includes all endcaps, pipes, connections to and from concrete control structure and all connections from storm drainage system. See material specifications above.